App No: 10/750,039
Docket: P17403

Amendments to the Claims

1. (Currently Amended) A method comprising:

executing corresponding instruction threads in parallel as a leading thread and a trailing thread;

speculatively saving a result from a first instruction executed in the leading thread and speculatively saving a result from a second instruction corresponding to the first instruction executed in the trailing thread to a memory having extensions for speculative storage;

comparing the results saved in the memory;

committing a single set of instructions based on the compared result; and

deferring external updates until completion of the step of committing.

2. (canceled)

3. (Currently Amended) The method of claim 1 wherein the corresponding instruction threads are epoch instruction threads.

4. (Currently Amended) The method of claim 3, wherein a location read by the leading thread during an epoch contains same value as that read by the leading thread when the corresponding read by the trailing thread loads occurs.

5. (Currently Amended) An apparatus comprising:

a means for executing parallel threads as a leading thread and a trailing thread;

a means for speculatively saving the results from the executed threads in a memory having extensions for speculative storage;

a means for comparing the results saved in the memory;

App No: 10/750,039
Docket: P17403

      a means for committing a single set of thread based on the compared result; and

      a means for deferring external updates until completion of the step of committing.

6. (Original) The apparatus of claim 5 wherein the executed threads are epoch threads.

7. (Original) The apparatus of claim 6, wherein each epoch is executed twice.

8. (Currently Amended) The apparatus of claim 5 wherein a location having a first value when loaded by the leading thread during an epoch contains the first value when the corresponding load by trailing thread loads occurs.

9. (canceled)

10.   (Currently Amended) The apparatus of claim 8 wherein the single set is committed if the compare result matches.